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RAW SEQUENCE LISTING   DATE: 04/23/2002
PATENT APPLICATION: US/10/078,113   TIME: 11:00:42

Input Set : N:\Crf3\RULE60\10078113.raw
Output Set: N:\CRF3\04232002\J078113.raw

ENTERED

SEQUENCE LISTING
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 1 (1) GENERAL INFORMATION:
 2      (i) APPLICANT: Abrams, Mark A.
 3                    Bauer, S. C.
 4                    Braford-Goldberg, Sarah R.
 5                    Caparon, Maire H.
 6                    Easton, Alan M.
 7                    Klein, Barbara K.
 8                    McKearn, John P.
 9                    Olins, Peter O.
10                    Paik, Kumnan
11                    Thomas, John W.
12     (ii) TITLE OF INVENTION: Interleukin-3 (IL-3) Multiple Mutation
13                               Polypeptides
14    (iii) NUMBER OF SEQUENCES: 415
15     (iv) CORRESPONDENCE ADDRESS:
16          (A) ADDRESSEE: Dennis A. Bennett, G.D. Searle & Co.,
17                         Corporate Patent Dept.
18          (B) STREET: P. O. Box 5110
19          (C) CITY: Chicago
20          (D) STATE: Illinois
21          (E) COUNTRY: USA
22          (F) ZIP: 60680
23      (v) COMPUTER READABLE FORM:
24          (A) MEDIUM TYPE: Floppy disk
25          (B) COMPUTER: IBM PC compatible
26          (C) OPERATING SYSTEM: PC-DOS/MS-DOS
27          (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
28     (vi) CURRENT APPLICATION DATA:
C--> 29         (A) APPLICATION NUMBER: US/10/078,113
C--> 30         (B) FILING DATE: 19-Feb-2002
32    (vii) PRIOR APPLICATION DATA:
33          (A) APPLICATION NUMBER: 08/469,419
34          (B) FILING DATE:
35          (A) APPLICATION NUMBER: 08/411,795
36          (B) FILING DATE:
37          (A) APPLICATION NUMBER: PCT/US93/11197
38          (B) FILING DATE: 22-NOV-1993
39   (viii) ATTORNEY/AGENT INFORMATION:
40          (A) NAME: Bennett, Dennis A.
41          (B) REGISTRATION NUMBER: 34,547
42          (C) REFERENCE/DOCKET NUMBER: C2713/2
43     (ix) TELECOMMUNICATION INFORMATION:
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Input Set : **N:\Crf3\RULE60\10078113.raw**
Output Set: **N:\CRF3\04232002\J078113.raw**

```
 44          (A) TELEPHONE: (708)470-6501
 45          (B) TELEFAX: (708)470-6881
 46 (2) INFORMATION FOR SEQ ID NO: 1:
 47      (i) SEQUENCE CHARACTERISTICS:
 48          (A) LENGTH: 23 base pairs
 49          (B) TYPE: nucleic acid
 50          (C) STRANDEDNESS: single
 51          (D) TOPOLOGY: linear
```
W--> 52   **(ii) MOLECULE TYPE: DNA (synthetic)**
```
 53      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 54 CTAGCGATCT TTTAATAAGC TTG                                              23
 56 (2) INFORMATION FOR SEQ ID NO: 2:
 57      (i) SEQUENCE CHARACTERISTICS:
 58          (A) LENGTH: 23 base pairs
 59          (B) TYPE: nucleic acid
 60          (C) STRANDEDNESS: single
 61          (D) TOPOLOGY: linear
```
W--> 62   **(ii) MOLECULE TYPE: DNA (synthetic)**
```
 63      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 64 GATCCAAGCT TATTAAAAGA TCG                                              23
 66 (2) INFORMATION FOR SEQ ID NO: 3:
 67      (i) SEQUENCE CHARACTERISTICS:
 68          (A) LENGTH: 69 base pairs
 69          (B) TYPE: nucleic acid
 70          (C) STRANDEDNESS: single
 71          (D) TOPOLOGY: linear
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W--> 72   **(ii) MOLECULE TYPE: DNA (synthetic)**
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 73      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
 74 GGCAACAATT TCTACAAAAC ACTTGATACT GTATGAGCAT ACAGTATAAT TGCTTCAACA      60
 75 GAACAGATC                                                             69
 77 (2) INFORMATION FOR SEQ ID NO: 4:
 78      (i) SEQUENCE CHARACTERISTICS:
 79          (A) LENGTH: 67 base pairs
 80          (B) TYPE: nucleic acid
 81          (C) STRANDEDNESS: single
 82          (D) TOPOLOGY: linear
```
W--> 83   **(ii) MOLECULE TYPE: DNA (synthetic)**
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 84      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
 85 TGTTCTGTTG AAGCAATTAT ACTGTATGCT CATACAGTAT CAAGTGTTTT GTAGAAATTG      60
 86 TTGCCGC                                                               67
 88 (2) INFORMATION FOR SEQ ID NO: 5:
 89      (i) SEQUENCE CHARACTERISTICS:
 90          (A) LENGTH: 23 base pairs
 91          (B) TYPE: nucleic acid
 92          (C) STRANDEDNESS: single
 93          (D) TOPOLOGY: linear
```
W--> 94   **(ii) MOLECULE TYPE: DNA (synthetic)**
```
 95      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
 96 CCATTGCTGC CGGCATCGTG GTC                                              23
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Input Set : N:\Crf3\RULE60\10078113.raw
Output Set: N:\CRF3\04232002\J078113.raw

```
 98 (2) INFORMATION FOR SEQ ID NO: 6:
 99      (i) SEQUENCE CHARACTERISTICS:
100            (A) LENGTH: 46 base pairs
101            (B) TYPE: nucleic acid
102            (C) STRANDEDNESS: single
103            (D) TOPOLOGY: linear
W--> 104      (ii) MOLECULE TYPE: DNA (synthetic)
105      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
106 CATGGCTCCA ATGACTCAGA CTACTTCTCT TAAGACTTCT TGGGTT                46
108 (2) INFORMATION FOR SEQ ID NO: 7:
109      (i) SEQUENCE CHARACTERISTICS:
110            (A) LENGTH: 42 base pairs
111            (B) TYPE: nucleic acid
112            (C) STRANDEDNESS: single
113            (D) TOPOLOGY: linear
W--> 114      (ii) MOLECULE TYPE: DNA (synthetic)
115      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
116 AACCCAAGAA GTCTTAAGAG AAGTAGTCTG AGTCATTGGA GC                    42
118 (2) INFORMATION FOR SEQ ID NO: 8:
119      (i) SEQUENCE CHARACTERISTICS:
120            (A) LENGTH: 64 base pairs
121            (B) TYPE: nucleic acid
122            (C) STRANDEDNESS: single
123            (D) TOPOLOGY: linear
W--> 124      (ii) MOLECULE TYPE: DNA (synthetic)
125      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
126 AATTCCGTCG TAAACTGACC TTCTATCTGA AAACCTTGGA GAACGCGCAG GCTCAACAGT  60
127 AATA                                                             64
129 (2) INFORMATION FOR SEQ ID NO: 9:
130      (i) SEQUENCE CHARACTERISTICS:
131            (A) LENGTH: 64 base pairs
132            (B) TYPE: nucleic acid
133            (C) STRANDEDNESS: single
134            (D) TOPOLOGY: linear
W--> 135      (ii) MOLECULE TYPE: DNA (synthetic)
136      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
137 AGCTTATTAC TGTTGAGCCT GCGCGTTCTC CAAGGTTTTC AGATAGAAGG TCAGTTTACG  60
138 ACGG                                                             64
140 (2) INFORMATION FOR SEQ ID NO: 10:
141      (i) SEQUENCE CHARACTERISTICS:
142            (A) LENGTH: 126 amino acids
143            (B) TYPE: amino acid
144            (D) TOPOLOGY: linear
145      (ii) MOLECULE TYPE: peptide
146      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
147      Met Ala Pro Met Thr Gln Thr Thr Ser Leu Lys Thr Ser Trp Val Asn
148      1               5                   10                  15
149      Cys Ser Asn Met Ile Asp Glu Ile Ile Thr His Leu Lys Gln Pro Pro
150                  20                  25                  30
```

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```
151     Leu Pro Leu Leu Asp Phe Asn Asn Leu·Asn Gly Glu Asp Gln Asp Ile
152          35                  40                  45
153     Leu Met Glu Asn Asn Leu Arg Arg Pro Asn Leu Glu Ala Phe Asn Arg
154          50                  55                  60
155     Ala Val Lys Ser Leu Gln Asn Ala Ser Ala Ile Glu Ser Ile Leu Lys
156     65                  70                  75                  80
157     Asn Leu Leu Pro Cys Leu Pro Leu Ala Thr Ala Ala Pro Thr Arg His
158                  85                  90                  95
159     Pro Ile His Ile Lys Asp Gly Asp Trp Asn Glu Phe Arg Arg Lys Leu
160                  100                 105                 110
161     Thr Phe Tyr Leu Lys Thr Leu Glu Asn Ala Gln Ala Gln Gln
162          115                 120                 125
164 (2) INFORMATION FOR SEQ ID NO: 11:
165      (i) SEQUENCE CHARACTERISTICS:
166          (A) LENGTH: 24 base pairs
167          (B) TYPE: nucleic acid
168          (C) STRANDEDNESS: single
169          (D) TOPOLOGY: linear
```
W--> 170   **(ii) MOLECULE TYPE: DNA (synthetic)**
```
171      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
172 CATGGCTAAC TGCTCTAACA TGAT                                          24
174 (2) INFORMATION FOR SEQ ID NO: 12:
175      (i) SEQUENCE CHARACTERISTICS:
176          (A) LENGTH: 22 base pairs
177          (B) TYPE: nucleic acid
178          (C) STRANDEDNESS: single
179          (D) TOPOLOGY: linear
```
W--> 180   **(ii) MOLECULE TYPE: DNA (synthetic)**
```
181      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
182 CGATCATGTT AGAGCAGTTA GC                                            22
184 (2) INFORMATION FOR SEQ ID NO: 13:
185      (i) SEQUENCE CHARACTERISTICS:
186          (A) LENGTH: 113 amino acids
187          (B) TYPE: amino acid
188          (D) TOPOLOGY: linear
189     (ii) MOLECULE TYPE: peptide
190     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
191     Met Ala Asn Cys Ser Asn Met Ile Asp Glu Ile Ile Thr His Leu Lys
192     1                   5                   10                  15
193     Gln Pro Pro Leu Pro Leu Leu Asp Phe Asn Asn Leu Asn Gly Glu Asp
194                  20                  25                  30
195     Gln Asp Ile Leu Met Glu Asn Asn Leu Arg Arg Pro Asn Leu Glu Ala
196                  35                  40                  45
197     Phe Asn Arg Ala Val Lys Ser Leu Gln Asn Ala Ser Ala Ile Glu Ser
198          50                  55                  60
199     Ile Leu Lys Asn Leu Leu Pro Cys Leu Pro Leu Ala Thr Ala Ala Pro
200     65                  70                  75                  80
201     Thr Arg His Pro Ile His Ile Lys Asp Gly Asp Trp Asn Glu Phe Arg
202                  85                  90                  95
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```
203      Arg Lys Leu Thr Phe Tyr Leu Lys Thr Leu Glu Asn Ala Gln Ala Gln
204                     100                 105                 110
205      Gln
207 (2) INFORMATION FOR SEQ ID NO: 14:
208      (i) SEQUENCE CHARACTERISTICS:
209              (A) LENGTH: 27 amino acids
210              (B) TYPE: amino acid
211              (D) TOPOLOGY: linear
212      (ii) MOLECULE TYPE: peptide
213      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
214      Met Met Ile Thr Leu Arg Lys Leu Pro Leu Ala Val Ala Val Ala Ala
215      1               5                   10                  15
216      Gly Val Met Ser Ala Gln Ala Met Ala Asn Cys
217                     20                  25
219 (2) INFORMATION FOR SEQ ID NO: 15:
220      (i) SEQUENCE CHARACTERISTICS:
221              (A) LENGTH: 133 amino acids
222              (B) TYPE: amino acid
223              (D) TOPOLOGY: linear
224      (ii) MOLECULE TYPE: peptide
225      (ix) FEATURE:
226              (A) NAME/KEY: Modified-site
227              (B) LOCATION: 1
228              (D) OTHER INFORMATION: /note= "Met- may or may not precede the
229 amino acid in position 1"
230      (ix) FEATURE:
231              (A) NAME/KEY: Modified-site
232              (B) LOCATION: 17
233              (D) OTHER INFORMATION: /note= "Xaa at position 17 is Ser,
234 Lys, Gly, Asp, Met, Gln, or Arg"
235      (ix) FEATURE:
236              (A) NAME/KEY: Modified-site
237              (B) LOCATION: 18
238              (D) OTHER INFORMATION: /note= "Xaa at position 18 is Asn,
239 His, Leu, Ile, Phe, Arg, or Gln"
240      (ix) FEATURE:
241              (A) NAME/KEY: Modified-site
242              (B) LOCATION: 19
243              (D) OTHER INFORMATION: /note= "Xaa at positiion 19 is Met,
244 Phe, Ile, Arg, Gly, Ala, or Cys"
245      (ix) FEATURE:
246              (A) NAME/KEY: Modified-site
247              (B) LOCATION: 20
248              (D) OTHER INFORMATION: /note= "Xaa at position 20 is Ile,
249 Cys, Gln, Glu, Arg, Pro, or Ala"
250      (ix) FEATURE:
251              (A) NAME/KEY: Modified-site
252              (B) LOCATION: 21
253              (D) OTHER INFORMATION: /note= "Xaa at position 21 is Asp,
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Input Set : **N:\Crf3\RULE60\10078113.raw**
Output Set: **N:\CRF3\04232002\J078113.raw**

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L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:52 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1
L:62 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=2
L:72 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=3
L:83 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=4
L:94 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=5
L:104 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=6
L:114 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7
L:124 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8
L:135 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9
L:170 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=11
L:180 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=12
L:784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:788 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
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L:794 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:1269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:1271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:1273 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
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L:1277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:1279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
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L:1652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:1654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:1656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:1658 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:1660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:1662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:1664 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
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L:2508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
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L:2514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:2516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
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Output Set: **N:\CRF3\04232002\J078113.raw**

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L:2984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
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L:2990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:2992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:2994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:2996 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:3366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:3368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
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L:3376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:3378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
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Input Set : **N:\Crf3\RULE60\10078113.raw**
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